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<110> Jew, Choong-Chin

<120> Method for the Detection of Cancer Related Gene Transcripts in Blood

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<141> 2004-03-30

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<150> US 10/601,518

<151> 2003-06-20

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<151> 2002-10-09

<150> US 09/477,148

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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gggtttcccg gggaacccaa ccctttaagg ggtngggggg aatttcccc caaaaaagg 120
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<211> 438
<212> DNA
<213> Human

<400> 15
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cccacatttc catttttaat atatactgtg ctttacaat attataatat gttttaaaat 180
atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaaa ataagcattc 240
tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300
caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360
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ctttaaggnt tgggggaatt cccccaaaa aggaaaaaat tttcccgggg gccacccgg	120
aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc	180
aattcccaa accaatttcc aaaaggnaaa ccaacnttc ccaaattggg aaagg	235

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 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180
 aaggggggaa aattttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240
 ggggggttcc ccttgggccn tttttccttt tgggtnaaaa aaaaaaaccc cttg 294

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 <211> 453
 <212> DNA
 <213> Human

<400> 18
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 aagtttaatc cctgggttct aactaccctt actgtcactt agcttaacct gcctccaatc 120
 ctgtacttga actctaaaac tggttgagaa actcagtgtc taccccaaca gattcatttc 180
 aaatagctgt aaaaggatat tttactccag aagaccagag ttgcttcttt tgaacttctc 240
 attccttggg cctaggaacc ctcatcacc tcatcccaac gtcaaccag atcttctctt 300

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ccataaacag cactccctca ggccccctgcc tgacacaggc atagactgtc atgttggatt	360
cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt	420
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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180
gttctgggna acgggcaatg cgggcttgca acgggnngaa naaaacagn cccaaaagaa 240
tg 242

<210> 20
<211> 181
<212> DNA
<213> Human

<400> 20
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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggagggtt 120
gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180
c 181

<210> 21
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tttngngctg cngcccctgt gcctggtgcc acaacaaatg 100

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cggaaggcc nttggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggcccccccc 120
aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaaanaag 180
gcccaaccacc tttcaacanc cccaangcg nggaagccat ttcttg 227

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<211> 306
<212> DNA
<213> Human

<400> 25
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ttcgaccatg tgccttccca ggttgatgaa gacattgcta cacagtctgc agatcaggaa 120

SEQLST~1.TXT

ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca	180
aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga	240
agagacaaat tttgtcatca gctagtgatc tgccatacaa ggtgttcct taatatgtgt	300
agaatg	306

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agatcgcccta gccctttgcg ggcgaccacc acgatgtccc agcctgtcag gttgtcctga	120
ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg	180
acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct	240
agcagcagga cacttttgcc cgaggagcttt accgcttggg gagtcgaaga ctgccttgna	300
ttgccgggga gtcagcagtc gctttttccc ggncgaagcc tcgaactcac cancctgtct	360

SEQLST~1.TXT

ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga	420
cttgcgcggc ccgtttcttt ggggggcaa taccggggcn cggggaaaac ccgnggggng	480
gccaaacccc cc	492

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acgagccggg ctggagcggg gggaaaagca aatgtaggca taagtaacga caatgcgggc	120
gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta	180
gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc	240
cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag	300
tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa	360
agtgggtgaa acgccagcgc atggcaacct gtaccgcaaa ccgacacagg tagccggggg	420
anaacatcct aaggngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt	480
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 aagaaggaac ccaccctnng ggccaaacaa aaacttaaaa acccccccat ttctncccc 180
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cantcantng ttgccntntg atacccnana caaaattgaa 100

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ggtgctcctg cgtttggact gtgcaggcct ctctatgct gatgcgtctc ccactcctg 180
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 actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180
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atatgacctg cgnnacanacn cnctaanang ngactngtta aanacnttcc gtggaatnna 60

ctcagactgc aaantgtnat nctgncnnan nntgngact gtccngncng atttnnngcn 120

tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180

cantnnnctg gggncaccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tctactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat 420

aggttacnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggcatga ttttnnnncag tgcgtcagcc ttganaanga ancnnacttt 540

tgntagatga nnnngntgctc ncccttgngg ctnacaaatt ccancaccnt tgggtggcngc 600

SEQLST~1.TXT

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt	660
gttncaaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn	720
actggaaatt ttg	733

<210> 53
 <211> 100
 <212> DNA
 <213> Human

<220>
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 <222> (13)..(13)
 <223> n is a, c, g, or t

<220>
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 <222> (15)..(15)
 <223> n is a, c, g, or t

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 <221> misc_feature
 <222> (37)..(37)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (42)..(42)
 <223> n is a, c, g, or t

<220>
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 <222> (44)..(45)
 <223> n is a, c, g, or t

<220>
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 <222> (50)..(50)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (57)..(59)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g, or t

<220>
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 <222> (74)..(74)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (80)..(80)
 <223> n is a, c, g, or t

SEQLIST~1.TXT

<400> 53
gatcagacaa gancntgggtc cacagcgggga cgagagntct cnannctgcn ggggagnnnc 60
caagtacgcn agcncctgaan ctaaagcaag caagaaaaag 100

<210> 54
<211> 515
<212> DNA
<213> Human

<400> 54
atatggcaag gataacccct atacttctgc ataatgaatt aactaaaata acttgcaagg 60
agagccaagc taaacccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg 120
tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatgtagc tgggtgtccaa 180
gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca 240
agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300
gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360
tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420
ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480
gacaattaac tgccccaata tctacaatcc aaccc 515

<210> 55
<211> 176
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (32)..(32)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (40)..(40)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (60)..(60)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g, or t

<220>

SEQLST~1.TXT

<221> misc_feature
<222> (76)..(76)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (107)..(107)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (155)..(155)
<223> n is a, c, g, or t

<400> 55
tgtnaggat caaattataa tattgaaata anaacagctn acatttatat agcatgtttt 60
cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120
agcctgccct cattagacca agacagcaag gtttncctg gtcactagat gaaatt 176

<210> 56
<211> 317
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 56
cagnagtgat gttgcaatat ctggaactag caaaggatac tgatgagaaa acgtggaatc 60
atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
ggatttgggg tttagaggta caattgcctt tttatggta gagaaaggta ctggggctgg 180
aggagacctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
acattgttat tgccatt 317

<210> 57
<211> 209
<212> DNA
<213> Human

<400> 57
ctcatacacc tgtggctact gttttctaca gagtgccaaa actattcgag agaataggct 60
ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120
aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat 180
taattgggag tgggggctga aacaattcg 209

<210> 58

SEQLIST~1.TXT

<211> 262
<212> DNA
<213> Human

<400> 58
aatTTTgctg ttacatggtg gctcaactga gtcccatact ttgaaggccg ggagttaatc 60
acctgggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120
caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg 180
agttgcttgg cccaaggaag gagggttgta tggctgatca cactgggtccg cctgggtgac 240
agagcgagac tccatctcta at 262

<210> 59
<211> 430
<212> DNA
<213> Human

<400> 59
gtcagtttat ttctgactag ggatattttc tttccattta gaaaagaaga aaaaaaaaaa 60
aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt 120
cccgggggag gggtatccg tttataaacc ccaaggggtat tttcttagca aaataacttaa 180
aaccggcccg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga 240
tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccgggt 300
aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaagcctt ttgggcccc 360
ctaggggaatt gttttaacac ctaaaaaccc ctgcttcct taaaggggcg ttctttaatt 420
tgggggcggc 430

<210> 60
<211> 350
<212> DNA
<213> Human

<400> 60
aaacctctct aactatatat cacaataacc tgcgcataag atttacgctc cgatcttttc 60
atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg 120
tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180
tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatacct 240
tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300
taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61
<211> 515
<212> DNA
<213> Human

SEQLST~1.TXT

<400> 61
cacataaatt ctccataagt taattagtga ttttaacatg atctcaatat aaacatagca 60
cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag 120
aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180
taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240
aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg 300
agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360
atgaagttaga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat 420
ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480
gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62
<211> 611
<212> DNA
<213> Human

<400> 62
caagtacttt accaactaag ccaatcttgt ccccagccag gcatttctat acaaagggcc 60
aagacttttg ttttataaat aaggaggtat atataaatta tatatatattc tgagctgagt 120
aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tcctttttgt 180
tgggcatttt tatgggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg 240
tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttattttaa 300
tttgttaaaa ttgatataat gatataataa acttcttttg ccagtgttgg tggcacacgc 360
ctttaatccc agcacttagg aggagagggc aggggtggatt tctgaatttg agggcaggct 420
agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480
ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540
caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600
cagaccaaac t 611

<210> 63
<211> 291
<212> DNA
<213> Human

<400> 63
ccgagagatt ggccactgct taaactcatg cagctcctac tgttcttcaa ttaatgcctt 60
taatgcgaat atacttcctc ttctttttgc atgggtcttg ccagcctctg caatactgat 120
gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca 180
ggacatagga caacttcgtc gtcactagt tctaacatat taatgctggc gtaggtggag 240

aactactgca catataactct tactcggagg ctgaggcacg aggatcactt g 291

<210> 64
<211> 309
<212> DNA
<213> Human

<400> 64
gccagatgcc gtgtttcctc gatgaactct ttacatcatt ggctattcag tggagtgttt 60
cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca 120
tatatttcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180
aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat 240
cttaactgcc ctcttgatcc ttacgtgccg gagaagggtg aggcagaaat tttgtcaaat 300
ctgattaga 309

<210> 65
<211> 278
<212> DNA
<213> Human

<400> 65
tagaatggaa tggagtcgaa tgtgatggaa tggacgcgaa tggaatggaa tggactcgaa 60
tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
<211> 142
<212> DNA
<213> Human

<400> 66
agttctcctt aggttaatta atggaatgca atcccaatga aaatgtcacc aaagttgttt 60
tttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa 120
atagctagta aactccccct gt 142

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
atatctgcc tccatcatcg ccaatcgtgt tattttgatg acgaatgctt cggagattgg 60
aaagatgatc tccatcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180

SEQLIST~1.TXT

ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
atctactttt tattcttttg ataaatgttt atgaaatata aaatactgaa aattagaaaag 60
tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179

<210> 69
<211> 390
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (356)..(356)
<223> n is a, c, g, or t

<400> 69
cagataagac tattaagaca gataagagcc aaatcatgta gagcctcaga ggtttttgat 60
cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
ttttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgttcacgt 180
aggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
gtgacattgg agataagcag gtagacagat tctcagtgt ttaggagaga aaaatcaata 300
ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttngggt 360
ctcaatttct gcatgagaaa aaaggtggac 390

<210> 70
<211> 481
<212> DNA
<213> Human

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, or t

<400> 70
atgatgaaat gatgagatga aatgcntgag atgagatgtg atgaaatgat gatatgaaat 60
gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

SEQLST~1.TXT

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat	240
gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat	300
gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga	360
tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca	420
atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat	480
g	481

<210> 71
 <211> 125
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (38)..(38)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (42)..(42)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (77)..(77)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (79)..(79)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (88)..(88)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (90)..(90)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (100)..(100)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (110)..(110)

<223> n is a, c, g, or t

<400> 71

cggtngcaat tgggggccnc atacgcgcng acgagtantg gncangctnc ttgactacac 60

ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120

cacag 125

<210> 72

<211> 473

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (151)..(151)

<223> n is a, c, g, or t

<400> 72

gaaatgaaat aatgaaatga gatgaaataa cgaaataaaa ttgaaatgag atgagaggaa 60

atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga 360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420

tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

SEQLST~1.TXT

<210> 73
 <211> 500
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n is a, c, g, or t

<400> 73
 aatgagnatg aaaagnatga aatgatgaga tgaaatgaaa tgatgagatg aaatgaggtg 60
 aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 atgagatgaa atgatgaaat 500

<210> 74
 <211> 299
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (31)..(32)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g, or t

<400> 74
 ggaaatcctg aagtggaaat gatgagctga nntgcaatga gttgaaatga gatgaancga 60
 tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

SEQLST~1.TXT

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa	180
tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg	240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg	299

<210> 75
 <211> 155
 <212> DNA
 <213> Human

<400> 75 agtgaaatga aattgaaata aaatcgaaat gagatgagat gaaatgatga gatgatgaaa	60
taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga	120
tgagatgaca tgaaataatg aaacgaaatt gaaat	155

<210> 76
 <211> 367
 <212> DNA
 <213> Human

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (37)..(38)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (43)..(43)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (67)..(67)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (71)..(71)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature

SEQLIST~1.TXT

<222> (75)..(75)

<223> n is a, c, g, or t

<400> 76

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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac	120
cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt	180
tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact	240
ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga	300
aaatatgagg ggtggcaagg ttttgcctgt tacatttctca aatggaagca aattagatat	360
gtcattg	367

<210> 77

<211> 257

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (6)..(6)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<400> 77

actagnacag naatttttagc taagtggagt ttgagttaag tggagatgtg agaccatctc	60
atagaaatca ttattttctgt gggatggata attgggccaa attgtaaaat attttaacta	120
tcagtgtttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg	180
agaaatgagg ccagagtgcac tgcctagaaa attaagttgg taaattaatc acttttttct	240
aggtcctttc ttagtct	257

<210> 78

<211> 373

<212> DNA

<213> Human

<220>

<221> misc_feature

<222> (11)..(11)

<223> n is a, c, g, or t

<220>

<221> misc_feature

<222> (20)..(20)

<223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n is a, c, g, or t

<220>
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tattaccaaa atatttggac cattantaaa gantagggcc aaccnaatt tttcttgaaa	180
tttccgttaa atagccgtta aatgttttta cccatttcatt attggatacc tttaaattata	240
ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc ttttctcctc	300
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tgtttggtt	128

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag	180
taaggatattt ggcattggaat agagaaccca gaaacagacc caatgcatgg gtacaggata	240
taacacaggg aaatgaggga caatatatgg ttctggggata attatttata tgggggaaaat	300
aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg	360
catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg	420
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 aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180
 aggggtttatt ctttgtggtt ctgctgtcag agccttttga tgtctgatct gagatggagc 240
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 gaaaagaaaa tgggtttttt tgccgaaatc aaccgggtaa 100

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<400> 86
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 gaaaagagga agaaacgcctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata 120

SEQLST~1.TXT

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tcttttacct cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg	180
ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa	240
ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc	300
gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga	360
ttcttctaag cgtagcgcgt ctactccaat gttttcgta atccagcccc aactaacgcc	420
gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag	480
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acagccaaac cggtcgcgcc aaggcctccg tcgttttata atatattccg tttacgtata	180
aggaacgaac ccccttcat taccacggtc ccgcgtccgc ctcttctcc attcgcaaca	240
gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa	300
gatagcaaaag attaccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat	360
agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa	420
tataaactta atgtcccctt tattctcccg gacgcccctt ttaaccactt cttcctatct	480
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aattaaggna aggnnttaaaa aatttaacca angggggggtt taaagggntt ttttttttta	180
aaaaaaaaagg ttaaanccccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc	240
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ggaccggttt ccattttaat gggatttggg aa	332

SEQLIST~1.TXT

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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaaa 120
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ctcct 185

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taagtgtctg cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg 300
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atgggnaant ttnnnngggg ggggggaaaa ancccnnggg tnannggggg cccngggntt 180
naaannggn nctngggggg ggaaantttt ggcccccccc cgggggnttt ncctnaaaaa 240
aaancnttt naaanacngn nanaattttt ccnnnncggg gagngngga nntttttttt 300
tnaannagcc ntttttgna naaaaanntt ggnccccccc ctattccnng gnttttngga 360
ccnttnnanc ntgggnnttt ttagnccttn aaaaaaangc naatnttaag gtaaaaattt 420

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 ntnnanc tnc ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 ttttctctta tntgngngcn naacatctgc nngctctgnt annaanaatt ncataccgc 240
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 aaatgaaatg aaataatgaa atgaaattga aataaaattg aaatgagatg agatgaaatg 120
 atgagatgat gaaataaaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180
 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240
 acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300
 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360
 atgaaatgag gtgaaatgaa attagatgaa acgtaatgag atgaaatgac ataatgaaat 420
 gaaaaaatga aatgaaataa tgaaatgagg tgaaaattaaa tgagatgatg aaattaaatg 480
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 ntaaatgnga tgaattaatg atgagatgaa atgntgaaatg ccggggtggn tgagatgaat 720
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 atgaaatgat attgaaatga aattgaaaga tgagatgatg agatgaaatg gtgaaatggt 120
 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180

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tgaaatgaaa tgagattaaa tgatgagatg aaaactgatg aaaacttaaa tgatgaaata	240
atgaaatgaa aatgaaatgg aatgatgag atgagaagaa atgatgagat gagatgagat	300
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tgcttggttag acgcttttga acccttcagc gctgaaagta	100

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agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat	120
gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga	180
aatgacctaa tgaaatgaaa aaatgaaatg aaataatgaa atgaggtgaa attaaatgag	240
atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga	300
tgaatgatga gatgaaatga tgagatgaga tctaataatg agaggagatg atgagatgaa	360
ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtgaaa	420
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tccccttgaa nntctctaaa ccttaacttt ctggcncntt tgtttcagan atgcctaacc	120
ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttggaac aattcncntt	180
cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc	240
tgaacactgt aaaaatgaac ttgaaacag ttgggtagga cccaaacaga aaatgatgta	300
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 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
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22